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SEQUENCE LISTING

<110> THE JOHN HOPKINS UNIVERSITY

<120> ENGINEERED RNAi ADENOVIRUS SILENCING EXPRESSION (ERASE)
OF DNA REPAIR PROTEINS

<130> 59564-PCT (71699)

<140> PCT/US03/36367

<141> 2003-11-12

<150> 60/425,897

<151> 2002-11-12

<160> 41

<170> PatentIn Ver. 3.2

<210> 1

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

tagtctatc atgttctagt tgacggcaga agcttgtgcc gtcgactagg acatggtaga 60
gttacagttt ttt 73

<210> 2

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 2

gatcaaaaaa ctgtaactct accatgtcct agtcgacggc acaagcttct gccgtcaact 60
agaacatgat agagctacg 79

<210> 3

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 3

tgccgtcaac tagaacatga tagagctaca g

<210> 4
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 4
cctggaggct tgtgttgagg ctgatacaga agcttgtgta tcagcctcag cataagcctc 60
cgggtagttt ttt 73

<210> 5
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5
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caacacaagc ctccaggcg 79

<210> 6
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 6
tgtatcagcc tcaacacaag cctccaggca g 31

<210> 7
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 7
tagtatgttg ctacaatcag ctccgtaaga agcttgttac ggagctgatt gtggcgacgt 60
attactcttt ttt 73

<210> 8
 <211> 79
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 8
 gatcaaaaa gagtaatacg tcgccacaat cagctccgta acaagcttct tacggagctg 60
 attgtagcaa catactacg 79

<210> 9
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 target sequence

<400> 9
 ttacggagct gattgtagca acatactact c 31

<210> 10
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 10
 tattatattc ctctggtgtg gcactgccga agcttgggca gtgtcacact agagggatat 60
 agtacagttt ttt 73

<210> 11
 <211> 79
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 11
 gatcaaaaa ctgtactata tccctctagt gtgacactgc ccaagcttcg gcagtgccac 60
 accagaggaa tataatacg 79

<210> 12
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 12
ggcagtgccca caccagagga atataataca g 31

<210> 13
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13
ttgctgcaat ccgcagaagt ctcgttatga agcttgataa tgagacttct gcggattgta 60
gtaattcttt ttt 73

<210> 14
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 14
gatcaaaaaa gaattactac aatccgcaga agtctcatta tcaagcttca taacgagact 60
tctgcggatt gcagcaacg 79

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 15
ataacgagac ttctgcggat tgcagcaacc 30

<210> 16
<211> 73
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16

ctcatgacca ctggccattc cacagcatga agcttgatgc tgtggagtgg ccggtgggta 60
tgagtcgttt ttt 73

<210> 17

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17

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tggccagtgg tcatgagcg 79

<210> 18

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 18

atgctgtgga atggccagtg gtcattgagcc g 31

<210> 19

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 19

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atatcttttt ttt 73

<210> 20

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 20

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gctggcatta cagacatcg 79

<210> 21

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 21

agccccgcgg tgctggcatt acagacatct t 31

<210> 22

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 22

gatgaacttc acccaataat cctaggagga agcttgcttc taggattatt gggtaggagtt 60
cgtcttattt ttt 73

<210> 23

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 23

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attgggtgaa gttcatccg 79

<210> 24

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 24
ctcctaggat tattgggtga agttcatcct a 31

<210> 25
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 25
tgaagttgca cagaagtgag gacaaccgga agcttgggggt tggttcttact tctgtgcagc 60
ttcattattt ttt 73

<210> 26
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 26
gatcaaaaaa taatgaagct gcacagaagt aagaacaacc ccaagcttcg ggttgtcctc 60
acttctgtgc aacttcacg 79

<210> 27
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
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target sequence

<400> 27
gggttgcct cacttctgtg caacttcact a 31

<210> 28
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 28
tagctctatc atgttctagt tgacggcann nnnnnntgcc gtcgactagg acatggtaga 60
gttacagttt ttt 73

<210> 29
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 29
cctggaggct tgtgttgagg ctgatacann nnnnnntgta tcagcctcag cataagcctc 60
cgggtagttt ttt 73

<210> 30
<211> 73
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 30
tagtatgttg ctacaatcag ctccgtaann nnnnnnttac ggagctgatt gtggcgacgt 60
attactcttt ttt 73

<210> 31
<211> 73
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (29)..(36)

<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 31

tattatattc ctctggtgtg gcactgccnn nnnnnnggca gtgtcacact agagggatat 60
agtacagttt ttt 73

<210> 32

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (29)..(36)

<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 32

ttgctgcaat ccgcagaagt ctcggtatnn nnnnnnataa tgagacttct gcggattgta 60
gtaattcttt ttt 73

<210> 33

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (29)..(36)

<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 33

ctcatgacca ctggccattc cacagcatnn nnnnnnatgc tgtggagtgg ccggtgggta 60
tgagtcggtt ttt 73

<210> 34
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 34
atgtctgtaa tgccagcacc gcggggctnn nnnnnnagcc tcgtgggtgct ggtattacag 60
atatcttttt ttt 73

<210> 35
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 35
gatgaacttc acccaataat cctaggagnn nnnnnncttc taggattatt gggtaggagtt 60
cgtcttattt ttt 73

<210> 36
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 36
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ttcattattt ttt 73

<210> 37
 <211> 179
 <212> DNA
 <213> Human adenovirus type 5

<400> 37
 ctctggccgg tcagggcgcg gcaatcggtg acgctctaga ccgtgcaaaa ggagagcctg 60
 taagcgggca ctcttcctg gtctgggtgga taaattcgca agggatcat ggcggacgac 120
 cggggttcga gccccgtatc cggccgtccg ccgtgatcca tgcggttacc gcccgcgtg 179

<210> 38
 <211> 127
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 promoter sequence

<400> 38
 ggccgcgggg aggagtccgt ggtctggatt ccaattcagc gggagccacc tgatgaagct 60
 tgatcgggtg gctctcgctg agttggaatc ctttttgat ccaccggggt tcgagccccg 120
 cttaaga 127

<210> 39
 <211> 127
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 promoter sequence

<400> 39
 gatctcttaa gcggggctcg aaccccggtg gatccaaaaa ggattccaac tcagcgagag 60
 ccaccgatc aagcttcac aggtggctcc cgctgaattg gaatccagac cacggactcc 120
 tccccgc 127

<210> 40
 <211> 130
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 promoter sequence

<400> 40
 ggccgcgggg aggagtccgt ggtctggatt ccaattcagc gggagccacc tgatgaagct 60
 tgatcgggtg gctctcgctg agttggaatc ctttttgat ccaccggggt tcgagccccg 120
 cttaagacta 130

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<210> 41

<211> 126

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
promoter sequence

<400> 41

tagtcttaag cggggtcga acccgggtg atccaaaag gattccaact cagcgagagc 60
caccgatca agcttcacga ggtggctccc gctgaattgg aatccagacc acggactcct 120
ccccgc 126